

L38 ANSWER 3 OF 3 WPIX COPYRIGHT 2003 THOMSON DERWENT on STN  
AN 1991-027204 [04] WPIX  
TI Fabrication of display with electron-emitting element array - performs  
vacuum pumping while emitting electrons from element array NoAbstract Dwg  
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DC V05  
PA (CANO) CANON KK  
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MC EPI: V05-L03; V05-L09

L38 ANSWER 2 OF 3 JAPIO (C) 2003 JPO on STN  
AN 1990-299129 JAPIO  
TI MANUFACTURE OF IMAGE DISPLAY DEVICE  
IN SAKANO YOSHIKAZU; NOMURA ICHIRO; ONO HARUTO; SUZUKI HIDETOSHI; KANEKO  
TETSUYA; TAKEDA TOSHIHIKO  
PA CANON INC  
PI JP 02299129 A 19901211 Heisei  
AI JP 1989-118612 (JP01118612 Heisei) 19890515  
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SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1990  
IC ICM H01J009-385  
ICS H01J009-39; H01J031-15  
AB PURPOSE: To dispense with the degassing and surface cleaning of an image display device and process it in a short time by exciting surface conductive type electron emitting elements and emitting electrons, activating the device, releasing the adsorbed gas, and vacuum exhausting when the image display device using surface conductive type electron emitting elements is manufactured.  
CONSTITUTION: Electrodes 2 and 3 and an electron emission section 4 are constituted on an insulating substrate 1 to form a surface conductive type electron emitting element 5, and the first spacer 13 with the thickness  $20\mu\text{m}$ , a control electrode 7, an electrode substrate 15 with the thickness  $50\mu\text{m}$ , a focusing electrode 8, the second spacer 17, an accelerating electrode 11 on a faceplate glass 12, phosphors 9, and a metal back 10 are provided. The thickness of the spacer 17 is set to about  $9.9\text{mm}$  so that the distance from the substrate 1 to the metal back 10 is made  $10\text{mm}$ , and these components are arranged as shown in the figure. The loci of electron beams 6 flying in a device are expanded as shown by broken lines. The degassing and surface cleaning in this device are performed according to the conditions shown in the table.  
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